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Casebolt et al.

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(54) **ROPE GRAB**

(71) Applicant: **D B Industries, LLC**, Red Wing, MN (US)

(72) Inventors: **Scott C. Casebolt**, St. Paul Park, MN (US); **John P. Blomberg**, New Ulm, MN (US)

(73) Assignee: **D B Industries, LLC**, Red Wing, MN (US)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

This patent is subject to a terminal disclaimer.

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See application file for complete search history.

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Primary Examiner — Alvin Chin-Shue

Assistant Examiner — Shiref Mekhaeil

(74) *Attorney, Agent, or Firm* — Dicke, Billig & Czaja, PLLC

(57) **ABSTRACT**

A rope grab for a vertical fall protection system is provided. The rope grab includes a housing with an elongated member passage. The elongated member passage is configured to receive an elongated member. A locking cam is pivotally coupled to the housing and selectively engages an elongated member received in the elongated member passage. A cam spring is coupled between the housing and the locking cam to provide a relatively slight biasing force on the locking cam in a direction towards an elongated member received in the elongated member passage. A locking arm, pivotally coupled to the housing, has a first end that is configured to be coupled to a safety harness of a user and a second end that selectively engages the locking cam to lock the locking cam on an elongated member in the elongated member passage during a fall event.

14 Claims, 13 Drawing Sheets

